

CONTENTS

VOL. 12, NO. 1, MARCH, 1960

MACKLIN, MADGE T. A Study of Retinoblastoma in Ohio.....	1
STEINBERG, ARTHUR G., GILES, BRENDA DAWN, AND STAUFFER, RACHEL. A Gm-like Factor Present in Negroes and Rare or Absent in Whites: Its Relation to Gm ^a and Gm ^s	44
CHUNG, C. S., MORTON, N. E., AND PETERS, H. A. Serum Enzymes and Genetic Carriers in Muscular Dystrophy.....	52
ISHIKUNI, N., NEMOTO, H., NEEL, J. V., DREW, A. L., YANASE, T., AND MATSUMOTO, Y. S. Hosojima.....	67
MILCH, ROBERT AUSTIN. Studies of Alcaptonuria: Inheritance of 47 Cases in Eight Highly Inter-related Dominican Kindreds.....	76
GRAY, MARGERY P., AND LAUGHLIN, W. S. Blood Groups of Caddoan Indians of Oklahoma.....	86

Symposium on Cytology and Cell Culture Genetics of Man

Edited by GORDON ALLEN

CHU, E. H. Y. The Chromosome Complements of Human Somatic Cells.....	97
FORD, C. E. Human Cytogenetics: Its Present Place and Future Possibilities.....	104
BARR, M. L. Sexual Dimorphism in Interphase Nuclei.....	118
SACHS, L., AND KRIM, M. Some Systems for the Genetic Analysis of Mammalian Cells.....	128
FRACCARO, M. Cell Cultures for Human Genetic Studies and Concluding Remarks.....	134
Book Reviews.....	139
Letters to the Editor.....	
STERN, CURT. O. Vogt and the Terms "Penetrance" and "Expressivity".....	141
WAARDENBURG, P. J. Ectopia Lentis et Pupillae.....	141

VOL. 12, NO. 2, JUNE, 1960

ROSENFELD, RICHARD E., HABER, GLADYS V., SCHROEDER, RUTH, AND BALLARD, RACHEL. A Negro Family Revealing Hunter-Henshaw Information, and Independence of the Genes for Js and Lewis.....	143
ROSENFELD, RICHARD E., HABER, GLADYS V., SCHROEDER, RUTH, AND BALLARD, RACHEL. Problems in Rh Typing as Revealed by a Single Negro Family.....	147
GIBLETT, ELOISE R., AND STEINBERG, ARTHUR G. The Inheritance of Serum Haptoglobin Types in American Negroes: Evidence for a Third Allele Hp^{sm}	160
JARVIK, LISSY F., FALEK, ARTHUR, KALLMANN, FRANZ J., AND LORGE, IRVING. Survival Trends in a Senescent Twin Population.....	170
COHEN, BERNICE H. ABO-Rh Interaction in an Rh-Incompatibly Mated Population.....	180
ALLEN, GORDON. A Differential Method for Estimation of Type Frequencies in Triplets and Quadruplets.....	210
Book Reviews and Books Received.....	225

VOL. 12, NO. 3, SEPTEMBER, 1960

SANDBERG, AVERY A., KOEPF, GEORGE F., GROSSWHITE, LOIS H., AND HAUSCHKA, THEODORE S. The Chromosome Constitution of Human Marrow in Various Developmental and Blood Disorders.....	231
PATAU, KLAUS. The Identification of Individual Chromosomes, Especially in Man.....	250
HSIA, DAVID YI-YUNG, AND STEINBERG, ARTHUR G. Studies on Linkage Between Phenylketonuria and the Blood Groups.....	277

RENWICK, J. H., LAWLER, SYLVIA D., AND COWIE, VALERIE A. Phenylketonuria: A Genetical Linkage Study Using Phenylalanine Tolerance Tests.....	287
PEDEN, VIRGINIA H. True Idiopathic Hypoparathyroidism as a Sex-Linked Recessive Trait.....	323
SUTTON, H. ELDON, MATSON, G. ALBIN, ROBINSON, A. R., AND KOUCKY, R. W. Distribution of Haptoglobin, Transferrin, and Hemoglobin Types Among Indians of Southern Mexico and Guatemala.....	338
MORTON, NEWTON E. The Mutational Load Due to Detrimental Genes in Man.....	348
WRIGHT, SEWALL. "Genetics and Twentieth Century Darwinism"—A Review and Discussion.....	365
Book Reviews.....	373
Letters to the Editor	
PERKOFF, GERALD T., STEPHENS, FAYETTE E., AND TYLER, FRANK H. Chronic Hereditary Nephritis and Y-Chromosome Linkage: Reply to Graham.....	381
GRAHAM, JOHN B. Chronic Hereditary Nephritis: Not Shown to be Partially Sex-Linked.....	382
REPORT OF A STUDY GROUP. A Proposed Standard System on Nomenclature of Human Mitotic Chromosomes.....	384

VOL. 12, NO. 4, DECEMBER, 1960

PART 1 (OF 2 PARTS)

SHAW, MARGERY W., FALLS, HAROLD F., AND NEEL, JAMES V. Congenital Aniridia... 389	389
STEINBERG, ARTHUR G., AND BROWN, DONALD C. On the Incidence of Cystic Fibrosis of the Pancreas.....	416
GITTELSON, A. M. Family Limitation Based on Family Composition.....	425
JACKSON, CHARLES E., FALLS, HAROLD F., BLOCK, WALTER D., RUKAVINA, JOHN K., AND CAREY, JOSHUA H. Inheritance of Primary Systemic Amyloidosis.....	434
LYNCH, HENRY T., OZER, FARUK, McNUTT, C. WALLACE, JOHNSON, JOHN E., AND JAMPOLSKY, NOEL A. Secondary Male Hypogonadism and Congenital Ichthyosis: Association of Two Rare Genetic Diseases.....	440
Book Reviews and Books Received.....	448
Index to Volume 12.....	453

VOL. 12, NO. 4, DECEMBER, 1960

PART 2 (OF 2 PARTS)

POST, RICHARD H. Subject Index for Bibliography of Human Genetics, Volumes 1-8..	1
--	---

INDEX

ABO

- ABO-Rh interaction, 180
- adolase assay, 53
- ahaptoglobinemia, 160
- alcaptonuria
 - in Dominican kindreds, 76
- ALLEN, G., 95, 210
- α_2 globulin
 - in amyloidosis, 438
- amyloidosis
 - glycoproteins in, 438
 - lipoproteins in, 438
 - primary systemic, 434
 - secondary, 434
 - α_2 globulin in, 434
 - serum hexosamine in, 438

anemia

- chromosomes in, 244

aniridia

- congenital, 389
 - clinical description, 389
 - frequency, 389
 - familial cases, 389
 - isolated cases, 389
 - mutation rate, 389
 - relative fitness, 389

antigenic variation, 128

ascertainment of retinoblastoma, 2

BALLARD, R., 143, 147

BARR, M. L., 118

BLOCK, W. D., 434

blood groups

- Caddoan Indians, 86
- linkage with phenylketonuria, 277, 287

books reviewed

- A Clinical and Genetico-Statistical Study of Schizophrenia and Low-Grade Mental Deficiency in a Large Swedish Rural Population, 226
- An Introduction to Medical Genetics, 228
- Essential Tremor: A Clinical and Genetic Population Study, 379
- Genetic Basis of Morphological Variation, 225
- Genetik des Menschen: Lehrbuch der Humangenetik, 139
- Hemophilia and Other Hemorrhagic States, 277
- Heredity and Human Nature, 450

Human Heredity, 449

- Inheritance of Glioma: The Genetic Aspects of Cerebral Glioma and its Relation to Status Dysraphicus, 448
- Maladies Hereditaires du Metabolisme chez l'Enfant, 139
- Outline of Human Genetics, 378
- Radiation, Genes, and Man, 374
- Retinitis Pigmentosa Combined with Congenital Deafness; with Vestibulo-Cerebellar Ataxia and Mental Abnormality in a Proportion of Cases, 225
- Science and Liberal Education, 373
- Synthesis and Organization in the Bacterial Cell, 229

BROWN, D. C., 416

Caddoan Indians

blood groups, 86

CAREY, J. H., 434

cell culture, 95

cell cultures

for human genetic studies, 134

cell-virus associations, 131

chromocenter

female-specific, 119

derivation, 119

chromosomal variation, 128

chromosome complements

human somatic cells, 97

chromosomes

and congenital abnormalities, 110

leukaemia, 113

CHU, E. H. Y., 97

CHUNG, C. S., 52

COHEN, BERNICE H., 180

congenital abnormalities

chromosomes in, 110

consanguinity of parents

retinoblastoma, 7

COWIE, VALERIE A., 287

CROSSWHITE, LOIS H., 231

cystic fibrosis of the pancreas

incidence of, 416

cytology, 95

Darwinism

genetics and, 365

detrimental equivalents, 348

DREW, A. L., 67

- dyschromatosis symmetrica, 73
 empiric risk
 retinoblastoma, 7
 expressivity
 O. Vogt and, 141
 FALEK, A., 170
 FALLS, H. F., 389, 434
 family limitation
 based on family composition, 425
 based on family size, 425
 family size
 and family limitation, 425
 FORD, C. E., 104
 FRACCARO, M., 134
 frequency of aniridia, 393
 GIBLETT, ELOISE R., 160
 GILES, BRENDA DAWN, 44
 GITTELSON, A. M., 425
 glutamic-oxalacetic transaminase in serum,
 53
 glycoproteins
 in amyloidosis, 438
 Gm
 specificity of reagents, 49
 Gm^a, 44
 Gm^x, 44
 Gm-like
 relation to
 Gm^a, 48
 Gm^x, 48
 gonadal dysgenesis (Turner's syndrome),
 123
 GRAY, MARGERY P., 86
 HABER, GLADYS V., 143, 147
 haptoglobins
 ahaptoglobinemia, 160
 inheritance in Negroes, 160
 in Indians
 Mexico, 338
 Guatemala, 333
 third allele *Hp^{am}*, 160
 HAUSCHKA, T. S., 231
 hemoglobins
 in Indians
 Mexico, 338
 Guatemala, 333
 hereditary nephritis
 and sex-linkage, 382
 and Y-chromosome linkage, 381
 hermaphroditism, true, 123
 Hosojima, 67
 genetically determined disease in, 72
 history of, 70
 HSIA, D. Y.-Y., 277
 human chromosome morphology, 105
 human chromosomes
 and blood disorders, 231
 identification of, 251
 in anemia, 244
 in leukemia, 244
 Klinefelter's syndromes, 233
 Lowe's syndrome, 233
 measurement of, 251
 mongolism, 233
 precocious puberty, 233
 proposed nomenclature, 384
 pseudohypoparathyroidism, 233
 technical advances in the study of, 99
 Turner's syndrome, 233
 human cytogenetics, 104
 human somatic cells
 chromosome complements, 97
 Hunter-Henshaw
 independence of Js and Lewis, 143
 relation between, 143
 hypoparathyroidism
 true idiopathic, 323
 sex-linked, 323
 ichthyosis, congenital
 with male hypogonadism, 440
 inbreeding, the coefficient of, 67
 Indians
 haptoglobins in, 338
 hemoglobins in, 338
 transferrins in, 338
 interphase nuclei
 sexual dimorphism, 118
 ISHIKUNI, N., 67
 JACKSON, C. E., 434
 JAMPOLSKY, N. A., 440
 JARVIK, LISSY F., 170
 JOHNSON, J. E., 440
 Js
 independence of Hunter-Henshaw, 143
 KALLMANN, F. J., 170
 karyotype
 of man, 100
 Klinefelter's syndrome
 chromosomes in, 233
 KOEPF, G. F., 231
 KOUCKY, R. W., 338
 KRIM, MATHILDE, 128
 LAUGHLIN, W. S., 86
 LAWLER, SYLVIA D., 287
 letters to the editor
 A proposed standard system of nomencla-
 ture of human mitotic chromosomes,
 384

- Chronic hereditary nephritis: not shown to be partially sex-linked, 382
- Chronic hereditary nephritis and Y-chromosome linkage: reply to Graham, 381
- Ectopia lentis et pupillae, 141
- O. Vogt and the terms "penetrance" and "expressivity", 141
- leukemia
chromosomes in, 113, 244
- Lewis
independence of Hunter-Henshaw, 143
- life span
in twins, 170
- linkage studies
blood groups and phenylketonuria, 277, 287
- lipoproteins
in amyloidosis, 438
- LORGE, I., 170
- Lowe's syndrome
chromosomes in, 233
- LYNCH, H. T., 440
- McNUTT, C. W., 440
- MACKLIN, M. T., 1
- male hypogonadism
secondary
with ichthyosis, 440
chromosomes, 441
- mammalian cells
antigenic variation in, 128
cell-virus associations in, 131
chromosomal variation in, 128
genetic analysis, 128
- MATSON, G. A., 338
- MATSUMOTO, Y. S., 67
- MILCH, R. A., 76
- mongolism
chromosomes in, 233
- MORTON, N. E., 52, 348
- multiple births
frequency of zygosity types of triplets in, 210
quadruplets, 210
- muscular dystrophy
genetic carriers, 52
in chickens, 54
in man, 58
serum enzymes, 52
- mutation rate
congenital aniridia, 389
retinoblastoma, 39
- mutational load
due to detrimental genes, 348
- NEEL, J. V., 67, 389
- Negroes
Rh typing in, 147
serum haptoglobin types in, 160
- NEMOTO, H., 67
- nerve deafness with muteness, 72
- nomenclature
human chromosomes, 384
- non-disjunction
of sex chromosomes, 107
- OZER, F., 440
- parental age
retinoblastoma, 6
- PATAU, K., 250
- PEDEN, VIRGINIA H., 323
- penetrance
retinoblastoma, 37
O. Vogt and, 141
- periodic disease, 435
- PETERS, H. A., 52
- phenylketonuria
linkage studies, 277, 287
- population
Rh incompatible, 180
ABO-Rh interaction, 180
- population genetics, 370
- populations
twin, 170
- precocious puberty
chromosomes in, 233
- pseudohermaphroditism
female, 122
male, 123
- pseudohypoparathyroidism
chromosomes in, 233
- quadruplets
frequency of zygosity types, 210
- relative fitness
congenital aniridia, 389
- RENWICK, J. H., 287
- retinoblastoma
ascertainment, 2
consanguinity of parents, 7
empiric risk, 7
frequency in Ohio, 7
hereditary, 4
laterality, 5
mutation rate, 39
parental age, 6
pedigrees, description of, 10
penetrance, 37
sporadic, 4
survival of, 5
- Rh
ABO-Rh interaction, 180

- Rh alleles
 - \bar{R}^0 , 153
 - R^N , 153
 - r'^s , 153
- Rh typing
 - in Negroes, 147
- rheumatoid arthritis, 44
- ROBINSON, A. R., 338
- ROSENFELD, R. E., 143, 147
- RUKAVINA, J. K., 434
- SACHS, L., 128
- SANDBERG, A. A., 231
- SCHROEDER, RUTH, 143, 147
- sex anomalies
 - nuclear sexual dimorphism in human, 121
- sex chromatin, 118
- sex-chromosomes
 - abnormalities of, 105, 107
- sex determination
 - the mechanism of, 109
- sex-linkage
 - and hereditary nephritis, 382
- sex-linked trait
 - hypoparathyroidism, 323
- SHAW, MARGERY, W., 389
- STAUFFER, RACHEL, 44
- STEINBERG, A. G., 44, 160, 277, 416
- STERN, C., 141
- survival
 - in twins, 170
- SUTTON, H. E., 338
- symposium
 - cytology and cell culture, 95
- testicular feminization, 123
- transferrins
 - in Indians
 - Mexico, 338
 - Guatemala, 338
- triplets
 - frequency of zygosity types, 210
- Turner's syndrome
 - chromosomes in, 233
- twins
 - survival in, 170
- WAARDENBURG, P. J., 142
- WRIGHT, S., 365
- YANASE, T., 67
- Y-chromosome linkage
 - and hereditary nephritis, 381

